



FEB 11 2002

SERIAL NO.  
08/928,893
**SUPPLEMENTAL INFORMATION  
DISCLOSURE  
STATEMENT BY APPLICANT**
DOCKET NO.  
85940/15 (158 US 2)APPLICANTS  
Heikkila et al.FILING DATE  
September 12, 1997GROUP  
1651TECH CENTER 1600/2900  
FEB 15 2002

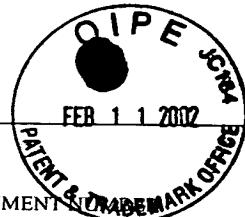
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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE*
an	2,684,331	7-20-54	W.C. Bauman	210	24	1-11-52
an	2,911,362	11-3-59	R.M. Wheaton	210	31	11-24-52
an	2,985,589	5-23-61	D.B. Broughton et al.	210	34	5-22-57
an	3,586,537	6-22-71	Steiner et al.	127	37	7-16-69
an	3,784,408	1-8-74	Jaffe et al.	127	37	9-16-70
an	3,928,193	12-23-75	Melaja et al.	210	31	2-14-75
an	4,008,285	2-15-77	Melaja et al.	260	635	6-18-75
an	4,066,711	1-3-78	Melaja et al.	260	637	3-15-76
an	4,075,406	2-21-78	Melaja et al.	536	1	8-28-75
an	4,368,268	1-11-83	Gong	435	161	5-15-81
an	4,471,114	9-11-84	Sherman et al.	536	127	12-30-82
an	4,857,642	8-15-89	Kulprathipanja	536	127	12-31-86
an	4,940,548	7-10-90	Zinnen	210	656	4-17-89
an	4,990,259	2-5-91	Kearney et al.	210	659	8-26-89
an	5,081,026	1-14-92	Heikkila et al.	435	158	11-2-90
an	5,122,275	1-16-92	Rasche	210	659	8-5-89
an	5,127,957	7-7-92	Heikkila et al.	127	47	11-30-90
an	5,177,008	1-5-93	Kampen	435	139	6-18-90
an	5,198,120	3-30-93	Masuda et al.	210	659	12-18-90
an	5,225,580	7-6-93	Zinnen	554	30	8-16-90
an	5,951,777	8-14-99	Nurmi et al.	127	61	5-5-98

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
an	Int. Application No.: PCT/US89/05572 Int. Pub. No.: WO 90/06796	Filing Date: 12-14-89 Pub. Date: 6-28-90	PCT			X	
an	Int. Application No.: PCT/FI90/00015 Int. Pub. No.: WO 90/08193	Filing Date: 1-15-90 Pub. Date: 7-26-90	PCT			X	
an	Int. Application No.: PCT/US90/07024 Int. Pub. No.: WO 91/08815	Filing Date: 11-30-90 Pub. Date: 6-27-91	PCT			X	
an	Application No. 87119111.0 Publication No. 0 279 946 A2	Filing Date: 12-23-87 Pub. Date: 8-31-88	Europe			X	



		DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
		TECH CENTER 1600/2000					YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
DR	Application No. 87119111.0 Publication No. 0 279 946 A3	Filing Date: 12-23-87 Pub. Date: 8-31-88	Europe				X
DR	Application No. 87119111.0 Publication No. 0 279 946 B1	Filing Date: 12-23-87 Pub. Date: 8-31-88	Europe				X
DR	Application No. 89109081.3 Publication No. 0 345 511 A2	Filing Date: 5-19-89 Pub. Date: 12-13-89	Europe				X
DR	Application No. 89109081.3 Publication No. 0 345 511 A3	Filing Date: 5-19-89 Pub. Date: 12-13-89	Europe				X
DR	Application No. 89109081.3 Publication No. 0 345 511 B1	Filing Date: 5-19-89 Pub. Date: 12-13-99	Europe				X
DR	Application No. FR19890000209 Publication No. FR2641545	Filing Date: 1-10-89 Pub. Date: 7-13-90	French				X*
DR	Application No. 62-235014 Publication No. 64-080409	Filing Date: 9-21-87 Pub. Date: 3-27-89	Japan				X*

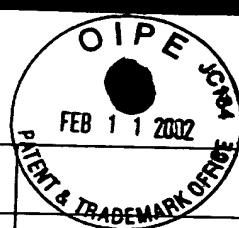
\*ABSTRACT

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EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
DR	CHEMICAL ABSTRACTS, Volume 105, No. 5, 4 August 1986, (Columbus, Ohio, US), J. C. DU PREEZ et al.: "Xylose fermentation by Candida shehatae and Pichia stipitis: effects of pH, temperature and substrate concentration"; see page 604, Abstract 41196y, & Enzyme Microb. Technol., 8 (6), 360-364 (1986).
DR	CHEMICAL ABSTRACTS, Volume 112, No. 5, 29 January 1990, (Columbus, Ohio, US), M.T. AMARAL-COLLACO et al.: "Utilization of the hemicellulosic fraction of agro-Industrial residues by yeasts"; see page 449, Abstract 34371t, & Enzyme Syst. Lignocellul. Degrad., 221-230 (1989).
DR	CHEMICAL ABSTRACTS, Volume 114, No. 5, 4, February 1991, (Columbus, Ohio, US), K.B. TAYLOR et al.: "The fermentation of xylose: studies by carbon-13 nuclear magnetic resonance spectroscopy"; see page 592, Abstract 41014y, & J. Ind. Microbiol., 6 (1), 29-41 (1990).
DR	CHEMICAL ABSTRACT, Volume 98, No. 9, 28 February 1983, (Columbus, Ohio, US), GONG, CHENG SHUNG et al.: "Conversion of pentoses by yeasts"; see page 484, Abstract 70314c, & Biotechnol. Bioeng., 25 (1), 85-102 (1983).
DR	Publication: "Third European Congress On Biotechnology", by Weinheim presented in Muchen, Federal Republic of Germany, Volume II (September 10-14, 1984).
DR	Publication: "Chromatography of Oligosaccharides and Related Compounds on Ion-Exchange Resin" by Department of Engineering Chemistry, Chalmers University of Technology, Goteborg, Sweden, Advances in Chromatography, vol. 16, pages 113-149 (1978).



EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
<i>DR</i>	Publication: "The Distribution of Polyalcohols Between Organic Ion Exchangers and Water" by Malte Persson and Olof Samuelson, Department of Engineering Chemistry, Chalmers Tekniska Hogskola, Goteborg, Sweden, No. 7, pages 1386-1394 (1958).
<i>DR</i>	Publication: "Ion-Exchange Chromatography of Aldehydes, Ketones, Ethers, Alcohols, Polyols and Saccharides" published in Journal of Chromatography printed by Chromatographic Reviews, Elsevier Scientific Publishing Company, Amsterdam-Printed in The Netherlands, 98 pages 55-104 (1974).
<i>DR</i>	Publication: "Xylitol dehydrogenase from <i>Pachysolen tannophilus</i> " by G. Ditzelmuller, C.P. Kubicek, W. Wohrer and M. Rohr of Institute for Biochemische Technologie and Mikrobiologie, Wien, Austria, pages 195-198 (July 31, 1984).
<i>DR</i>	Abstract: French Application No. FR19890000209 filed January 10, 1989, Publication No. FR2641545 published July 13, 1990 of Agrocinq pertains to a Process For The Biosynthesis of Xylitol.
<i>DR</i>	Abstract: Japanese Application No. 62-235014 filed August 21, 1987, Publication No. 64-080409 published March 27, 1989 of Japan Organo Co., Ltd. pertains to a False Moving Bed Device.
<i>DR</i>	Publication: "Fermentation of Cellulose and Hemicellulose Carbohydrates by Thermotolerant Yeasts" by Linda D. McCracken and Cheng-Shung Gong of Laboratory of renewable Resources Engineering, A.A. Potter Engineering Center, Purdue University, West Lafayette, Indiana, published by Biotechnology and Bioengineering Symp. No. 12, 91-102 (1982).
<i>DR</i>	Publication: "Conversion of D-Xylose Into Xylitol By Xylose Reductase From <i>Candida Pelliculose</i> Coupled With the Oxidoreductase System of Methanogen Strain HU" by V. Kitpreechavanich of Department of Microbiology, M. Hayasi, N. Nishio and S. Hagai of Department of Fermentation Technology, published Biotechnology Letter, Vol 6 No. 10, pages 651-656 (1984).
<i>DR</i>	Publication: "Quantitative Production of Xylitol From D-Xylose By A High-Xylitol Producing Yeast Mutant <i>Candida tropicalis</i> HXP2" by Cheng-Shung Gong, Li Fu Chen and George T. Tsao of Laboratory of Renewable Resources Engineering, A.A. Potter Engineering Center, Purdue University, West Lafayette, Indiana, published in Biotechnology Letters Vol. 3 No. 3, pages 130-135 (1981).

EXAMINER	<i>M. WJ</i>	DATE CONSIDERED <i>6/28/02</i>
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STATEMENT BY APPLICANT**

	DOCKET NO. 85940/15 (158 US 2)	SERIAL NO. 08/928,893
	APPLICANTS Heikkila et al.	
	FILING DATE September 12, 1997	GROUP 1651

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>DR</i>	3,619,369	11/9/71	Onishi et al.	195	37	7/8/69
<i>DR</i>	4,096,036	6/20/78	Liu et al.	195	31 F	4/7/77

**OTHER DOCUMENTS**

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
<i>DR</i>	Publication: "Biotechnological Production of Xylitol. Part 3: Operation In Culture Media Made From Lignocellulose Hydrolysates", by Juan Carlos Parajo, Herminia Domíquez & Jose Manuel Dominguez of Department of Chemical Engineering, University of Vigo, Ourense, Spain, published by <u>Bioresource Technology</u> 66 (1998), pages 25-40.
<i>DR</i>	Publication: "Fermentation of Lignocellulosic Hydrolysates For Ethanol Production", by Lisbeth Olsson and Barbel Hagerdal of Applied Microbiology, University of Lund/Lund Institute of Technology, Lund Sweden, published by <u>Enzyme and Microbial Technology</u> 18: pages 312-331, (1996).
<i>DR</i>	Publication: "Alternative Sweeteners Second edition, revised and Expanded", by Albert Bar, Bioresco Ltd., Brussels, Belgium, edited by Lyn O'Brien Nabors and Robert C. Gelardi of Calorie Control Council, Atlanta, Georgia, published by <u>Marcel Dekker, Inc.</u> pages 349-379 (1991).
<i>DR</i>	Abstract: Japanese Application No. 59-183571 filed August 31, 1984, Publication No. 61-063291 (1063291), published April 1, 1986 of Dai Ichi Kogyo Seiyaku Co., Ltd. pertains to the Production of Xylitol Through Enzymatic Process.
<i>DR</i>	Abstract: Japanese Application No. 60-244968 filed October 30, 1985, Publication No. 62-104588 (2104588), published May 15, 1987 of Nitto Electric Ind. Co., Ltd., pertains to Production of Xylitol.
<i>DR</i>	Abstract: Japanese Application No. 59-1411 filed January 10, 1984, Publication No. 60-145095 (0145095), published July 31, 1995 of Jiyuujiyou Seishi KK, pertains to Preparation of Xylitol By Immobilized Microorganism.
<i>DR</i>	Abstract: Japanese Publication No. 45-24834 (0024834), published August 18, 1970 of Zaidan Hojin Noda Sangyak (Zaid), pertains to Production Of Xylitol By Fermentation.

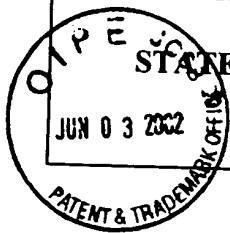
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GROUP  
1651

**U. S. PATENT DOCUMENTS**

4,631,129	12/23/86	Heikkila	210	635	10/4/85
5,637,225	6/10/97	Heikkila et al.	210	659	5/9/94

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

**OTHER DOCUMENTS**

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.

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